

Docket No. 22338-1015

U.S. Patent Application No. 10/630,329

Amendment to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Claim Listing:

Claims 1-32 (cancelled)

Please enter the following new claims:

33. (new) An isolated agonist antibody or fragment thereof that specifically binds to a polypeptide consisting of amino acids 24 to 238 of SEQ ID NO:2, wherein said antibody or fragment thereof enhances the apoptotic activity of DR4.
34. (new) The antibody or fragment thereof of claim 33, wherein the polypeptide is glycosylated.
35. (new) The antibody or fragment thereof of claim 33, wherein said antibody or fragment thereof is polyclonal.
36. (new) The antibody or fragment thereof of claim 33, wherein said antibody or fragment thereof is monoclonal.
37. (new) The antibody or fragment thereof of claim 33, wherein said antibody or fragment thereof is selected from the group consisting of: (a) a chimeric antibody or fragment thereof; (b) a Fab fragment; and (c) a F(ab')₂ fragment.
38. (new) The antibody or fragment thereof of claim 33, wherein said antibody or fragment thereof is labeled.

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39. (new) The antibody or fragment thereof of claim 38, wherein said label is selected from the group consisting of: (a) an enzyme, (b) a fluorescent label; and (c) a radioisotope.

40. (new) The antibody or fragment thereof of claim 33, wherein said antibody or fragment thereof specifically binds to said polypeptide in a Western blot.

41. (new) The antibody or fragment thereof of claim 33, wherein said antibody or fragment thereof specifically binds to said polypeptide in an ELISA.

42. (new) An isolated cell that produces the antibody or fragment thereof of claim 33.

43. (new) A hybridoma that produces the antibody or fragment thereof of claim 33.

44. (new) A composition comprising the antibody or fragment thereof of claim 33, and a carrier.

45. (new) A method of producing the antibody or fragment thereof of claim 33 comprising: (a) immunizing an animal with a polypeptide consisting of amino acids 24-468 of SEQ ID NO:2 or an epitope-bearing fragment thereof; and (b) recovering said antibody or fragment thereof.

46. (new) An isolated agonist antibody or fragment thereof which specifically binds to DR4 polypeptide expressed on the surface of a cell, wherein said DR4 polypeptide is encoded by a polynucleotide encoding amino acids 1-468 of SEQ ID NO:2.

47. (new) The antibody or fragment thereof of claim 46, wherein the polypeptide is glycosylated.

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48. (new) The antibody or fragment thereof of claim 46, wherein said antibody or fragment thereof is polyclonal.

49. (new) The antibody or fragment thereof of claim 46, wherein said antibody or fragment thereof is monoclonal.

50. (new) The antibody or fragment thereof of claim 46, wherein said antibody or fragment thereof is selected from the group consisting of: (a) a chimeric antibody or fragment thereof; (b) a Fab fragment; and (c) a F(ab')₂ fragment.

51. (new) The antibody or fragment thereof of claim 46, wherein said antibody or fragment thereof is labeled.

52. (new) The antibody or fragment thereof of claim 51, wherein said label is selected from the group consisting of: (a) an enzyme; (b) a fluorescent label; and (c) a radioisotope.

53. (new) The antibody or fragment thereof of claim 46, wherein said antibody or fragment thereof specifically binds to said polypeptide in a Western blot.

54. (new) The antibody or fragment thereof of claim 46, wherein said antibody or fragment thereof specifically binds to said polypeptide in an ELISA.

55. (new) An isolated cell that produces the antibody or fragment thereof of claim 46.

56. (new) A hybridoma that produces the antibody or fragment thereof of claim 46.

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57. (new) A composition comprising the antibody or fragment thereof of claim 46, and a carrier.

58. (new) A method of producing the antibody or fragment thereof of claim 46 comprising:
(a) immunizing an animal with a polypeptide consisting of amino acids 24-468 of SEQ ID NO:2 or an epitope-bearing fragment thereof; and (b) recovering said antibody or fragment thereof.

59. (new) An isolated agonist antibody or fragment thereof that specifically binds to a polypeptide consisting essentially of a DR4 extracellular domain, wherein said antibody or fragment thereof enhances the apoptotic activity of DR4.

60. (new) The antibody or fragment of claim 59, wherein said antibody or fragment thereof is selected from the group consisting of: (a) a chimeric antibody or fragment thereof; (b) a Fab fragment; and (c) a F(ab')₂ fragment.